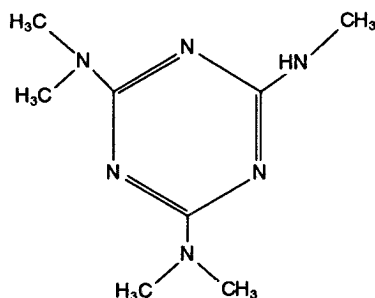


# PENTAMETHYLMELAMINE HYDROCHLORIDE

NSC - 118742



\*HCl

**Chemical Name:** *N,N,N',N',N''*-Pentamethylmelamine, monohydrochloride

**CAS Registry Number:** 35832-09-8

**Molecular Formula:** C<sub>8</sub>H<sub>16</sub>N<sub>6</sub>·HCl

**M.W.:** 232.7

**Approximate Solubility:** (as free base)

Solvent	Heat	Solubility (mg/mL)
0.1 N HCl	none; moderate	≈ 15 - 20
H <sub>2</sub> O	strong	≈ 3.6
MeOH	moderate	> 150
95% EtOH	moderate	> 200
CHCl <sub>3</sub>	none	> 200
DMSO	none	> 100

**Stability:****Bulk:**

A sample stored at 60 °C for 30 days showed no decomposition (TLC).

**Solution:**

A 2% solution in water (pH = 2.9), showed no decomposition after 7 days at room temperature (TLC).

**Ultraviolet Absorption:**

(0.1 N HCl)

$$\lambda_{\max} = 237 \pm 2 \text{ nm}$$

$$\epsilon = 26,200 - 27,100$$

**High Performance Liquid Chromatography:**

**Column:** 30 cm x 4.0 mm i.d. Spherisorb ODS

**Mobile Phase:** MeOH/H<sub>2</sub>O/Et<sub>2</sub>NH, 600/400/0.5

**Flow Rate:** 1.0 mL/min

**Detection:** UV at 254 nm

**Sample Preparation:** 1 mg samplings are accurately weighed and each dissolved in 1.00 mL H<sub>2</sub>O. One mL of internal standard solution is added and aliquots (1.5  $\mu$ L) of the resulting solutions are injected.

**Internal Standard:** o-nitroaniline diluted to (2.4 mg/10 mL  
methanol)

**Retention Volume:** 6.5 mL (NSC - 118742)  
4.5 mL (I.S.)